

The Pileup

Newsletter of the CDXA

NEW CONTEST FOR 2019

Announcing the 2019 CDXA 6 Meter Challenge

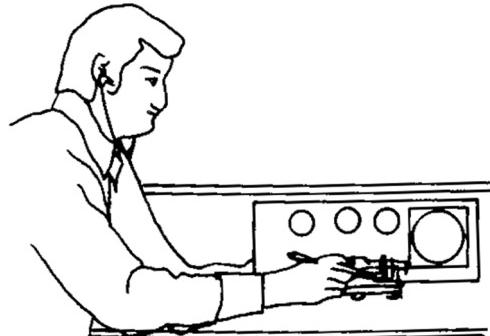
John Forbus, NV4A

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K4MD	Joe Simpkins	Cluster Mgr.
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W3GQ	Paul Sturpe	4th Call Area Bureau Mgr.
WB4BXW	Wayne Setzer	Webmaster
K8YC	John Scott	Editor

For this year, we are replacing the wildly successful 2018 FT8 Challenge with something that might be a bit more challenging, the “2019 CDXA 6 Meter Challenge”. The Rules are shown on Page 2, and will be posted on the CDXA website, but participating is straight forward, since the objective is to work as many 4 digit grid squares as possible, using any mode on 6 meters during 2019. This isn’t just for those of us who are already “into” VHF, but for any of us with a rig that includes 6 meters. Even if you don’t have a 6 meter antenna, that doesn’t preclude you from working 6. From my own (admittedly limited) experience, almost any antenna made for bands at lower frequencies will put out a signal on six meters . . . especially if you have a tuner that will work on 6m. I’ve used my tribander yagi with good results.

Here's an article from 2008, which still applies, on using your HF+6m rig on 6: <http://www.k0nr.com/blog/2008/05/use-that-new-hf6m-rig-on-6-meters.html> . You can, of course, buy or build a 6 meter antenna, and here's an article from QST that describes adding a 3 element 6 meter yagi to a tribander: <http://static.dxengineering.com/pdf/hallas.pdf> .

Whatever you do, just get in on this Challenge. It'll be fun, especially if we get some strong 6m openings like we had last spring. Much like DX King, working contests (the major VHF contests are included with the Contest Calendar in this issue of the Pileup, and on the event calendar on CDXA.org) can be a great way to add to your score. The full rules can be found on the next page. Have fun hunting new grids on 6!



CDXA PacketCluster & Other Communication Systems	
K4MD (AR V.4 Cluster via Telnet)	k4md.no-ip.com:23
K4MD (AR V.6 Cluster via Telnet)	k4md.no-ip.com:7373
W4DXA (AR V.6 Cluster via Telnet)	w4dxa.no-ip.com:23
CDXA Repeater 147.18 MHz (+600)	W4DXA, Near Fort Mill, SC
World Wide Web Homepage	www.cdx.org
Wednesday Luncheon (11:30 AM)	Skyland Family Restaurant, 4544 South Boulevard, Charlotte, NC

"2019 CDXA Six Meter Challenge" Rules

Objective: Contact amateur stations in as many different 2 degrees by 1 degree Maidenhead 4-digit Grid Squares as possible using any mode on 6 meters

Challenge Period:

0000Z Jan 1 to 2359Z Dec 31, 2019

Eligibility:

All CDXA Members are eligible to participate from their Home QTHs and/or any location which adheres to ARRL VUCC rule 6, which states that locations be not more than 200 km apart. For the purposes of this Challenge, one of the locations is considered to be a participant's Home QTH. If a participant has more than one QTH in different Grid Squares, the participant can submit separate entries for each QTH.

Band:

6 meter band only.

Repeaters:

Contacts made using repeaters whether terrestrial, aeronautical or satellite, do not count.

Power Categories:

Low Power: Up to 100 watts maximum power

High Power: Up to full legal maximum power

Whichever category is chosen initially by a participant shall be used for the entire year.

Scoring:

Each new Grid Square worked will count as one point

Final logs for the year will be due by 2359Z 5 January 2020. The total scores will then be determined. The scores will be announced in the February "Pileup", and prizes will be presented at the Hamfest Banquet in March, 2020

QSO Reporting:

Logs shall be submitted in ADIF format, using Dropbox at: <https://tinyurl.com/y8gzpl72> Note that each log submitted must contain all relevant QSOs to date, including QSOs from contest and non-contest operations. Logs may contain contacts from before the contest period, which will not count but will keep entrants from having to create a new log just for this Challenge. Logs may be submitted on a monthly basis with January logs to be submitted by 5 February. After initial log submission, logs need be submitted only when new Grid Squares are logged by the fifth of the following month, except that each participant must submit a log after December, as the final scores will be based on the December logs which should include all relevant QSOs for the entire year. Each participant shall also certify which Power Category he is using. (See "Log Naming" below.)

Log Naming Format:

Submitted logs shall be named as follows: [“CALL”|“CATEGORY”|“HOME GRID SQUARE”|“MONTH”].adi], where “CALL” is your callsign, “CATEGORY” is “low” or “high”, “HOME GRID SQUARE” is the four-digit Grid Square of your home QTH, and “MONTH” is the 3 letter abbreviation of the latest month for which the log is being submitted. (So, a log with “jun” may include QSOs from January through June for scoring, as well as older QSOs.) Note, as mentioned above, that anyone with multiple QTHs in different Grid Squares must submit separate logs for each QTH, which shall be scored separately. An example of a valid log name is: “nv4alowem95jan.adi” which records a log for NV4A for a Low Power category from EM95 through January 2019.

Prizes: At the end of the year, the participants with the highest score in the Low and High Power categories based on the above “Scoring” section are the Overall Category Winners of the “2019 CDXA 6 Meter Challenge.” The Overall Winners in the Low and High Categories will be awarded \$50 Amazon Gift Cards.

There will be a raffle which will give all other participants with a score of at least 50 Grid Squares a chance to win one of four \$25 Amazon Gift Cards. Certificates will be awarded to the winners in each Category.

The Pileup

Official Newsletter of the Carolina DX Association
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Published monthly 10 times per year, excluding the months of June and December.

The purpose of the Association is to secure for the members the pleasures and benefits of associating with persons having a common interest in Amateur Radio.

Members of the CDXA shall adhere to “The Amateur’s Code” as published from time to time in *The ARRL Handbook for Radio Amateurs*, and shall consist of those valid licensed amateur operators having an interest in promoting amateur radio. Long distance communications (DX) is of special interest to members of the Association, but said interest is not a requirement of membership.

Yearly dues are \$25.00. A second licensed Amateur family member living in the same household can join for \$5.00 for a total family price of \$30.00 per year. The total price for 3 or more licensed family members living in the same household is only \$35.00 per year. All family members enjoy full member status. Dues are payable annually in December by check to the Secretary/Treasurer:

Cliff Wagoner, W3ZL
218 Ohenry Avenue
Davidson, NC 28036

Address, telephone, and email address changes should be directed to the Secretary/Treasurer at the above address or via email at: jew53@cornell.edu.

The CDXA 2018 FT8 Challenge is Over

John Forbus, NV4A

2018 is over, and so is our FT8 Challenge. When we decided to run a year-long FT8 event, we were looking for a way to introduce our members to a new and interesting, but little known (it had only become available in the middle of 2017) digital mode. Little did we know that FT8 was already quickly becoming the most popular mode on HF! See the chart from Club Log on the next page showing HF modes used in 2017 to see how FT8 caught on, and took over, so quickly. So, we underestimated the scores we expected to get just a little bit! The final scores are shown below, and just as a reminder, the section of the Rules for the FT8 Challenge describing prizes is reprinted above the scores.

It appears that we have a LOT (18 if I'm counting correctly) of certificates to create and get out. K4MD, who waited to pounce by not submitting his score until late this past fall (sneaky but effective tactic Joe!) gets a \$50 Amazon Gift Card for his efforts in beating everyone else by a comfortable margin. The second place \$25 Amazon Gift Card goes to Paul, W3GQ. Congrats to Joe and Paul. We'll hold the raffle later this month at a Wednesday lunch, and the five lucky raffle winners will be announced and given \$25 Amazon Gift Cards. Prizes, both Certificates and Gift Cards, will be mailed or handed out once the raffle winners are determined. Thanks very much to all who contributed to making the FT8 Challenge one of our most popular Club events ever. From the FT8 Rules:

"Prizes:

At the end of the year, the participant with the highest Band/Grid Square count is the Overall Winner of the 2018 CDXA Grid Square Challenge. The Overall Winner will be awarded a \$50 Amazon Gift Card. The second place entrant will receive a \$25 Amazon Gift Card. There will also be a raffle which will give all other participants with at least 200 Grid Squares a chance to win one of five \$25 Amazon Gift Cards. Certificates will be awarded for first and second place, and to all entrants with greater than 300 Band/Grid Squares."

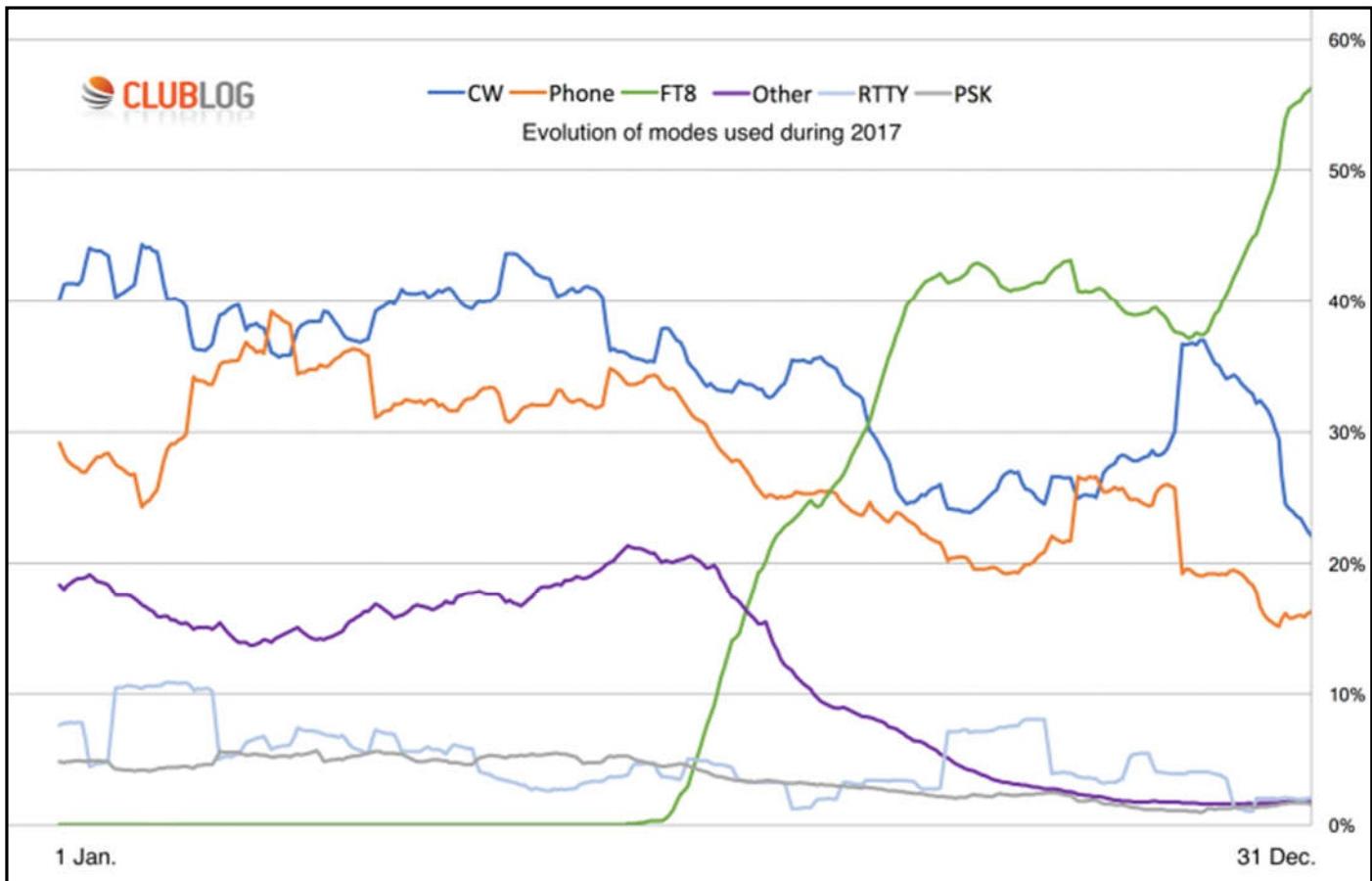
Call	Home Grid	80m	40m	30m	20m	17m	15m	12m	10m	6m	All Bands
K4MD	EM95	645	1153	910	1097	926	612	129	170	1	5643
W3GQ	EM95	379	714	449	916	712	369	88	95	51	3773
N4GBK	FM16	323	595	493	725	508	371	231	238	158	3642
K5EK	FM03	417	500	520	797	520	311	31	98	277	3471
W3OA	EM95	228	424	289	697	299	277	86	131	105	2536
AA4R	FM05	62	278	339	484	504	318	57	38	0	2080
KS4S	FM04	178	329	352	403	286	72	70	81	146	1917
K4GHS	EM96	142	217	433	292	449	259	31	50	12	1885
WA3DQS	EM95	276	180	241	84	154	124	43	70	21	1193
W4HG	EM95	186	321	165	218	209	57	21	10	0	1187
AA4R	EN64	36	114	169	192	243	66	15	41	22	898
W4WNT	EM94	57	82	115	121	95	45	46	35	103	699
W4GEH	EM95	76	201	123	164	87	28	2	4	0	685
NV4A	EM95	107	92	155	102	91	2	8	2	95	654
W4LK	EM93	34	121	132	217	70	25	3	2	8	612
WW4DD	EM94	116	130	34	142	5	0	0	1	2	430
K8YC	EM95	80	90	95	55	54	18	12	8	11	423
W3ZL	EM95	0	73	9	240	23	2	0	13	45	405
N4APR	EM95	10	101	13	111	27	6	0	0	0	268
W4JHU	EM85	29	73	0	39	26	3	0	4	0	174
W4GHV	EM95	3	23	10	22	5	1	0	0	1	65
K4WSC	EM95	0	4	0	0	0	0	0	0	0	4

Proportion of modes used on the air – 2017 update

Posted on [January 18, 2018](#) by [Michael Wells](#)

Every few years, I've posted a chart of which modes are being used on the air (based on what is uploaded to Club Log). This report isn't lightweight to calculate, so I don't have it as a standard feature in Club Log for you to access, but I'm just as interested in the results as everyone else. Calendar year 2017 was, of course, the year when digital modes changed forever with the advent of FT8. It is a remarkable technical achievement which has breathed life and enthusiasm into DXing for a whole new audience. See what you think about the side-effects.

Modes used during 2017 – and the arrival of FT8



Other statistics:

8,000 Club Log users uploaded FT8 QSOs in 2017, and they logged a total of 46,000 distinct callsigns in that mode. For reference, in 2017 the total number of QSOs uploaded to Club Log (all modes) was 32 million. Of that total, the number of QSOs made with FT8 was 4.8 million.

Note on data smoothing:

The lines are based on 28-day moving averages. I applied this smoothing to reduce the prominence of peaks related to mode-specific contests, such as CQWW SSB and CW.

*(Note: These comments and graph are copied from "G7VJR's Blog—Michael Wells' amateur radio blog". Mr. Wells is the creator of Club Log. To nobody's surprise, FT8 accounted for over 50% of amateur QSOs by the end of 2017.
—The Editor)*

YOU KNOW YOU ARE A HAM WHEN

1. The only time you get up at 6am is for a contest or DXpedition.
2. You know you can run all your home appliances on your equipment back-up battery.
3. Someone in a music shop asks you what bands you like and you answer 160 meters and 20 meters.
4. A bank clerk asks you to spell your name and you do so phonetically.
5. In a phone conversation , you wait for the "OVER" on the other side, before speaking.
6. You hear a scraping sound when driving through multi-story parking decks.
7. A band opening is more important than a grand opening.
8. Sight-seeing on holiday amounts to looking at rooftops for antennas.
9. The radios in your car are worth more than your car.
10. When you walk out of the house you not only feel your pockets for your keys and your wallet, but also your hip for your handheld.
11. At your child's school conference the schoolteacher asks you why your child identified countries on the world map as JA, ZL, VE, G, UA and XE.
12. If you refer to your house as "Ohm, sweet Ohm".
13. You're talking on the telephone and end every sentence with "(callsign) this is (callsign), over".
14. Your prime criterion for a new car is that it have zero ignition noise as well as a rain gutter and somewhere to put at least one rig)
15. You and your "significant other" hike to the top of a famous mountain, but rather than enjoy the magnificent sunset and giving them a kiss, you fire up the handitalkie to see how many repeaters you can hit.
16. You realize that you've been studying code too long because you try and find out who did it in 'Inspector Morse' by listening to the background music.
17. You look at the Rocky Mountain Range and try to figure out how to get an antenna mounted on the highest peak.
18. You look at the Brooklyn Bridge and develop a plan to get it to resonate on 160 meters.
19. (New for 2018 after FT8) If someone asks where you live, you give them your 6 character Maidenhead Grid Square locator.

*(This tidbit of humor was provided for The Pileup by our Italian member, Fabrizio Vedovelli, IN3ZNR.
—The Editor)*

LOTW Logs ONE BILLION Records!

A huge milestone was reached in the early evening of December 19th—One BILLION records had been uploaded to the ARRL's Logbook of the World!

The one billionth record was uploaded by 7X3WPL, the Sahara DX Radio Club, at 23:32 UTC for a 20-meter SSB contact with Davide Cler, IW1DQS, that took place on December 28, 2016. The upload resulted in a match (QSL).

(I was most happy to see the long-awaited confirmation of a RTTY contact with 7X3WPL which occurred in April 2015 and was apparently uploaded in the same batch that resulted in reaching the billion record goal, since it was added to my LoTW confirmation list on 19 December 2018 at 2309Z. —The Editor)

Welcome New Members

Early January shows three new names on the membership roster. **Robert Babcock, N4RF** of Pinehurst, NC comes to us with an appropriate callsign which includes "RF" as its suffix letters. **Lewis Cheek, N4CO** of Beaufort, SC stepped up from the SC coast. (*Can anyone help me remember if SC calls the town BO-FORT or BU-FORT?* —The Editor) Our third new member this month hasn't been on the roster for several years, and we're glad to see **Pat Patterson, N4BH**, of Charlotte, NC back with us. Welcome to the Carolina DX Association.

Ham Radio Bookshelf

By John Scott, K8YC

An announcement crossed my desk about a new self published book entitled, "The Successful Ham Radio Operator's Handbook". The author explains its purpose as follows:

"This new book is aimed at new or returning hams, to help them understand the practical aspects of the hobby, how to use their radios, build antennas and baluns, and get on the air successfully. In it you will find explanations of how the various parts of your ham radio—the transmitter and receiver—work."

I make no representations as to how well the author meets his intended purpose, but you can learn more about this book and its cost at the following site: <http://www.ke7x.com/successful>

Participate in the ARRL DX Contest And Win Outback Gift Cards

John Forbus, NV4A



The ARRL DX Contest is almost here again. The CW contest starts on Friday, February 15 at 1900 EST (0000Z Feb 16) and ends at 1859 EST (2359 Z) on February 17. The Phone contest will start at 1900 EST on March 1 (0000Z March 2) and end at 1859 EST (2359 Z) on March 3. As usual, we need as many CDXAers as possible to participate to add to our club score. Remember that even if you only make a few contacts it will still help CDXA's club standing. Looking at our Club scores below in the combined CW/Phone Contests, it's easy to see we slipped last year.

Year	CDXA Score	Number of CDXA Entries	Rank in Medium Club Category
2008	11,293,344	43	3
2009	10,157,613	36	7
2010	22,155,432	46	3
2011	26,587,443	47	5
2012	23,932,758	47	4
2013	26,958,444	49	4
2014	30,100,296	50	8
2015	29,291,437	41	2
2016	26,497,110	49	3
2017	15,246,312	30	3
2018	7,463,787	28	7

Although our results have been consistently in the top 10, last year we moved down from 3rd to 7th place. To get our Club Rank back up, and to try to stir up a bit more interest, we are again offering lots of Outback Steak House Gift Cards which are also good at Carrabbas Italian Grill, Bonefish Grill and Flemings Steak House. We're changing up the prizes in some of the categories, adding more prizes to the raffle, and adding a new Category. Read on...

First place prizes- The entrant with the Top Combined CW plus Phone score will receive a \$50 Outback Gift Card. Top scorers in the other categories listed below will, this year, receive \$25 Outback Gift Cards. This change lets us add more Gift Cards to the raffle and add a "Most Improved" Category (see below.) Note that the DXpedition and Multi-op prizes will only be awarded to an entrant whose score is high enough to have won one of the other first place prizes:

Top combined CW plus phone score
Top CW score, low power
Top phone score, low power
Top CW score

Top phone score
Top DXpedition score
Top Multi-op score
Most Improved score

Also:

1000 or more QSOs in the CW and phone contests: Each participant will win a \$25 Outback Steak House gift card.
500 or more QSOs total in the CW and Phone contests: Each participant gets a CDXA certificate and a chance in a raffle for one of four \$25 gift cards.

250 or more QSOs: Each participant gets a chance in the raffle for the four \$25 gift cards.

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2019 ARRL International DX Contest (continued)

Note that you can only win one prize. Only members whose scores are eligible for the club competition as defined in the ARRL contest rules (see explanation below) can win a Gift Card. The rules are available at <http://www.arrl.org/arrr-dx>. All CDXA members are eligible for the CDXA certificates. Prizes will be awarded based on your claimed score. Let me know if you have any questions, suggestions, or need help in preparing for the ARRL DX Contest. And, please let me know at jtfnv4a@aol.com if you are planning a DXpedition for the contest.

The “Most Improved” prize goes to the entrant who increases his score the most from his high score over the last five year's ARRL DX Contest (CW and phone combined.) If you didn't participate at all the last five years, get in on the action this year so that you'll be in the running for Most Improved next year.

ARRL rules require competitors in the Club competition to be within 175 miles of the “club center”, which in our case is Grid EM95xe. Before the Contest, we have to send ARRL a list of all our members who meet that criterion, which uses the center of the six digit grid square of your QTH as your location. **It's a good reason to get your 2019 dues to our Treasurer, W3ZL, so we can be sure you're included in the Roster when I update the eligibility list later this month.** If you aren't sure if you're in the circle, here's a tool that will quickly give you an answer: <https://www.chris.org/cgi-bin/finddis>.

DX King Contest Within A Contest for 2019

John Forbus, NV4A

For 2019 we will again be bringing back our DX King competition which is based on CQ Magazine's DX Marathon. The goal is to “work as many countries and zones as possible at least once during the calendar year”. For 2019 we will raffle off two \$50 Amazon gift cards, instead of the single \$100 Gift Card as we've done in the past. So you now have 2 chances to win a prize in what is arguably the easiest CDXA contest to enter. The rules of our DX King competition follow those of CQ Magazine's DX Marathon exactly, and we use their scoring spreadsheet as well. The goal stated above couldn't be simpler. You can work countries/zones both inside and outside of other contests. ... working contests is a really easy way to add to your score, and help CDXA's total contest scores as well. DX King/ CQ Marathon is also a way to keep up with how you're doing with your country count during the year. The scoring is easy. You add the number of countries that you have worked that are on the CQ list of countries to the number of zones worked all during calendar year 2019. The final scores will be announced after CQ announces its DX Marathon scores. Then, we will have a drawing among all the DX King entries which were included in the CQ list. In other words, in addition to submitting your final score to CDXA for DX King, *don't forget to submit your final score to CQ Marathon by 5 January 2020.*



2 x \$50.00

Full rules for DX Marathon, and therefore for DX King as well, are at [CQ Marathon 2019 Rules](#). CQ provides an Excel spreadsheet for score calculation and submission along with information on how to submit it at [CQ Marathon Submission Form](#). If your logging software won't directly convert your submission into the required spreadsheet format, check out an easy-to-use program from AD1C at: [CQ Marathon Conversion Tool](#). Note that this page also includes information on using DXKeeper (a module of DX Labs Suite) and Logger32, as well as using Open Office in place of Microsoft Office. If you are already using AD1C's program, you can click “Update” at the top of the program's main webpage, to update and keep all your current station information.

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DX King Contest Within A Contest for 2019 (continued)

Please read the official DX Marathon rules first, but here is a capsule version.

There are 3 entry classes:

- ◆ Unlimited—within the authorization of your license class
- ◆ Limited—100 watts, antennas may be directional
- ◆ Formula—5 watts or less or up to 100 watts, simple vertical or wire antennas only
- ◆ QSL verification is not needed.
- ◆ You may use packet cluster or other forms of spotting assistance.

****You must have your scores to CQ by 2359Z January 5, 2020****

Here are the specific rules for the CDXA DX King competition:

- ◆ Certificates will be awarded for the top five scores in each of the three classes.
- ◆ For 2019 there will be two \$50 gift cards from Amazon.com awarded by raffle among the entrants who have scored 150 or more points. Remember that, unlike our other contests, in DX King, a high score gets you bragging rights and a certificate, but any score above 150 points gets you in the raffle for the Gift Cards!
- ◆ Final standings will be determined by the DX Marathon scores published in CQ.
- ◆ After reaching a score of 100 (or sooner if you wish) fill out the on-line form on the CDXA Website. The form should be updated by the time you need to submit your first score, but if it isn't, don't worry. The 2018 form will work fine. You should upload your score by the 5th of each month, starting in February, or after you have 100 points.

This has proven to be a very popular contest with our members, and we're hoping that more of you jump in this year. As mentioned above, the scoring is about as simple as could be, and remember that even contacting someone close to your QTH will still give you Zone 5. Also, a reminder: Don't assume that all US stations are in the Zone matching the number on their licenses. Check QRZ to be sure. CQ says getting the wrong Zone for US stations is the #1 error in the contest.

Here's wishing you good DX in 2019.

Notes: All Contest Dates are in UTC. EST = UTC-5 hours. EDT = UTC - 4 hours

* Asterisks denote contests for which CDXA awards prizes and/or certificates.

Holiday Party . .@ Big Daddy's . .



Top: Mark Tarpley (N4UFP) and spouse/



Right: Bill Turner (W4WNT) and spouse.



Left: Dick Williams (W3OA) enjoys his favorite chocolate cake

Below: Joe Simpkins (K4MD) and spouse, Geena.



January, 2019

Holiday Happenings @ Big Daddy's . . .



Paul (W3GQ) and Suzanne Sturpe



Lou (N2TU) and Hilda Dietrich



Dick Williams (W3OA) and Paul Trotter (AA4ZZ) greet arrivals at Big Daddy's.

. . . @ Skyland Restaurant



Above and below: Our regular wait staff at Skyland Restaurant, Tabitha and Nick, are presented with a token of our appreciation collected from those who've been served throughout the year.



Ed Kuebert (K5EK) and spouse came from Southport for the event.

DX Calendar for 2019

Keep a copy of this around to keep track of the big events coming in 2019. The contests will also be added to the Event Calendar on the CDXA website.

Event	Dates	Event	Dates
*CQ DX Marathon and DX King	Jan 1-Dec 31	*2019 CDXA 6m Challenge	Jan 1-Dec 31
ARRL January VHF Contest	Jan 19-Jan 21	CQ World Wide 160 Meter, CW	Jan 25-27
*ARRL DX Contest, CW	Feb 16-17	CQ World Wide 160 Meter, Phone	Feb 22-24
*ARRL DX Contest, Phone	Mar 2-3	Charlotte Hamfest	Mar 8-9
CDXA Annual Hamfest Banquet	Mar 8 or 9 (TBD)	Dayton Hamvention	May 17-19
ARRL June VHF Contest	June 8-10	Field Day	June 22-23
CQ World Wide, VHF	Jul 21-22	Shelby Hamfest	Aug 30-Sep 1
ARRL September VHF Contest	Sep 14-16	CQ World Wide, RTTY	Sept 29-30
W4DXCC (SEDCO)/Ten-Tec Hamfest	Sept 21-22	*CQ World Wide, Phone	Oct 26-27
*CQ World Wide, CW	Nov 23-24	ARRL 160 Meter Contest	Dec 7-8
ARRL 10 Meter Contest	Dec 14-15		

Notes: All Contest Dates are in UTC. EST = UTC-5 hours. EDT = UTC - 4 hours

* Asterisks denote contests for which CDXA awards prizes and/or certificates.

The Back Page

Learn the details of the **NEW 2019 CDXA 6 meter Challenge** on Page 1. Rules will be found on Page 2

The **2018 FT8 Challenge** is over, but it really brought out the competitive juices. See Page 3.

How do you know if you are REALLY a ham? Answer can be found on Page 5.

LoTW records its ONE BILLIONTH contact! See Page 5.

Meet three new CDXA Members for 2019. See Page 5.

Get ready for the **ARRL International DX Contests** coming up in February and March outlined on Pages 6 and 7.

The **DX King Contest for 2019** promises the same fun with more prizes for 2019! See Pages 7 and 8.

Check out the “doings” that occurred during the month of December on Pages 8 and 9.